

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-202456

(43)Date of publication of application : 05.08.1997

(51)Int.Cl.

B65G 67/60

B65G 65/42

(21)Application number : 08-013103

(71)Applicant : TSUJI SANGYO KK

(22)Date of filing : 29.01.1996

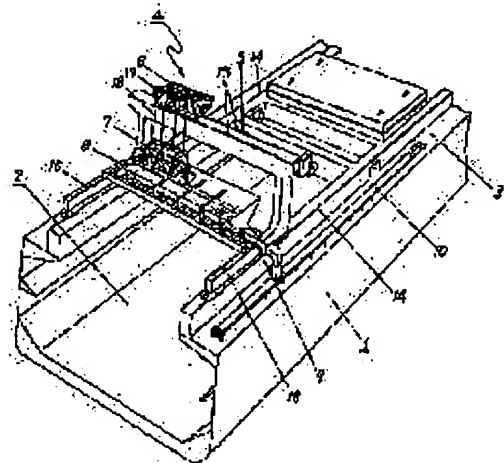
(72)Inventor : YAMASHINA HIROKATSU

(54) UNLOADING DEVICE FOR CARGO IN BULK IN HOLD

(57)Abstract:

PROBLEM TO BE SOLVED: To efficiently perform unloading by providing a traveling truck to be moved in the longitudinal direction of a hull on a deck and a transverse traveling truck to be moved in a ship side direction on the traveling truck, suspending a grab bucket from the transverse traveling truck so as to be liftable and performing unloading work by the bucket.

SOLUTION: A traveling truck 5 is moved over the hatch of a hold 2 and in the longitudinal direction of a hull on a rail 14 on a deck 3 and a hopper 8 for receiving the cargo in bulk from the grab bucket 7 is provided. The hopper 8 is moved on a rail 16 on the leg part of the traveling truck 5 in the longitudinal direction of the hull and a feeder conveyor 9 is provided immediately below the hopper 8. The hopper 8 is associatively moved to a position for passing the bucket 7 during the vertical movement of the grab bucket 7 and the grab bucket 7 reaches its upper limit position and when during the releasing of the cargo, the hopper is associatively moved to a position immediately below the bucket 7. The cargo fed into the hopper 8 is carried by the feeder conveyor 9, first and second belt conveyors 10 and a shuttle conveyor and discharged to the outside of the ship.



LEGAL STATUS

[Date of request for examination] 29.01.1996

[Date of sending the examiner's decision of rejection] 10.02.1998

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office